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METHOD OF PRODUCING GENETICALLY MODIFIED
ASTROCYTES AND USES THEREOF

Abstract of the Disclosure

5 A genetically modified astrocyte for gene
therapy is provided. The genetically modified
astrocyte includes one or more stably introduced DNA
sequences selected from DNA encoding a selectable
marker, DNA encoding a poison pill, and DNA encoding
a molecule useful for gene therapy. The genetically
10 modified astrocyte may be produced utilizing plasmids
and non-viral transfection methods, as are also
provided by the subject invention. Methods for
producing and utilizing the genetically modified
astrocytes and regulating the engineered products, as
15 well as kits thereof, are further provided.